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CLAIMS:

- Sub B1*
1. A monoclonal antibody (Mab) isolated using a two-Mab sandwich enzyme-linked immunosorbant assay (ELISA) and capable of binding Placental Protein 13 (PP-13).
 2. *The* A Mab according to Claim 1 produced by a hybridoma cell selected from the group consisting of clones # 26-2, 27-2-3, 215-28-3, 534-16 and 606-8-11-67. *⇒ should use accession #*
 3. A hybridoma clone selected from the group consisting of clones # 26-2, 27-2-3, 215-28-3, 534-16 and 606-8-11-67. *(accession #)*
 4. An immunoassay for measuring the level of PP-13 in a biological fluid comprising the steps of:
 - (a) bringing said fluid into contact with a Mab according to Claim 1, thereby forming Mab-PP-13 complexes;
 - (b) exposing said complexes to a second antibody linked to a signal-generating molecule, said second antibody being capable of binding said complexes, wherein said second antibody is also a Mab according to Claim 1; and
 - (c) providing conditions conducive to the production of a signal generated by said signal-generating molecule.
 5. *The* An immunoassay according to Claim 4 wherein said Mab in step (a) is bound to a solid phase.
 6. An immunoassay according to Claim 4 wherein said signal generating molecule is an enzyme.
 7. An immunoassay according to Claim 4 wherein said signal generating molecule is a ligand, and step (c) of claim 4 comprises incubating the product of step (b) with a ligand binding molecule linked to an enzyme.
 8. An immunoassay according to Claim 7 wherein said ligand is biotin and said ligand-binding molecule is extravidin.
- Sub B3*

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9. A kit for measuring the level of PP-13 in a biological fluid comprising
- (a) a Mab according to Claim 1;
 - (b) a second antibody linked to a signal-generating molecule wherein said second antibody is also a Mab according to Claim 1; and
 - (c) PP-13 standard solutions.
10. A kit according to Claim 9 wherein said Mab in step (a) is bound to a solid phase.
11. A kit according to Claim 9 wherein said signal generating molecule is an enzyme.
12. A kit according to Claim 9 wherein said signal generating molecule is a ligand, and said kit further comprises a ligand binding molecule linked to an enzyme.
13. A kit according to Claim 12 wherein said ligand is biotin and said ligand-binding molecule is extravidin.